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11/23/81



**Amoco Chemicals Corporation**

Post Office Box 182  
Wood River, Illinois 62095  
618-251 2200

H A McCandless  
Plant Manager

November 23, 1981

Bharat Mathur  
Manager, Permit Section  
Division of Air Pollution Control  
Illinois Environmental Protection Agency  
2200 Churchill Road  
Springfield, Illinois 62706

ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL  
STATE OF ILLINOIS

Dear Sir:

Removal of Two Primary Sewer Separator Box Floating Covers

The Amoco Oil Refinery at Wood River was put into a mothball condition May 30, 1981. Amoco Chemicals Corporation, who has taken over the site, has experienced a considerable drop in wastewater temperature due to curtailment of refinery operations.

Past experience shows the wastewater temperature feeding the Wastewater Treatment Plant ranged from 110°F to 70°F. With the refinery shutdown, we have experienced temperatures in the influent as low as 65°F and expect it to go lower. To operate our Wastewater Treatment Plant (WWTP) efficiently, a 70°F influent temperature is necessary. We estimate that there will be a 15°F water temperature drop across the WWTP during the winter months. We are already seeing a 10°F drop across the plant. At temperatures below 55°F, activity in the activated sludge process will decrease and may cause excursions of COD, NH<sub>3</sub>, and Phenol parameters on our National Pollution Discharge Elimination System (NPDES) permit.

Recognizing this problem, a retrofit program to remedy this situation has been proposed; however, construction will not be completed until the summer of 1982. In the interim, we propose to sparge approximately 40,000 pounds per hour of steam into the wastewater to maintain an appropriate temperature for treatment. In order to inject the steam safely, and increase the wastewater temperature, it will be necessary to remove two of the floating covers from the outflow end of the primary separator. Operating Permit Number 02120448, ID Number 119115AAA, identifies this portion of our wastewater system.

On November 12, 1981, we met with Messrs. Walter Franke, Jeff Benbenek and Joseph Mahlandt at the IEPA Collinsville office to propose this plan.

EPA Region 5 Records Ctr.



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They acknowledged their concurrence with our plan as a temporary measure to get us through the winter. Mr. Franke requested we submit the proposal to your office for review.

We respectfully request your review of this proposal and please advise of your concurrence.

If there are any questions or additional information needed, please contact C. A. Bartels at 618/251-2403.

A handwritten signature in dark ink, appearing to read "H A McCandless" followed by a stylized flourish or initials.

Henry A. McCandless

CAB/pl

C. M. Hamilton  
G. F. Timson  
D. E. Nicholson  
R. J. Kostecki  
J. S. Moore  
C. A. Bartels